



Project: Alaska Copper Works

Inspection Date: 12/30/19

Project No.: 19ACW1

Technician: David DuBois

**System Performance:**

Was system running during the inspection? ☐ Yes ☒ No

Flow Rates (gpm) Influent 90 Effluent n/a The flows should be ~155 gpm

Bag Filter #1 Pressures (psi) Influent 15 Effluent 10 The bag filters should be replaced if differential pressure > 8 psi

Bag Filter #2 Pressures (psi) Influent 15 Effluent 10

Carbon Filter Pressures (Lead) Influent n/a Effluent n/a The carbon filters should be

Carbon Filter Pressures (Lag) Influent n/a Effluent n/a backflushed if differential pressure > 8 psi

Were the bag filters replaced? ☐ Yes ☒ No

Was the carbon backflushed? ☐ Yes ☒ No

**Maintenance and Inspection Checklist:**

Task	Completed (Y/N)	Issues/Notes/Comments
Walchem Controller Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	No issues
Flow Meters Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Meters good
Level Sensor Cleaning/Inspection	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Inspect System Plumbing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumps Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Good
General Housekeeping	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Chemistry Level	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<2 gallons 10% Caustic 50 gallons 25% Caustic
Safety Materials Inspected	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
pH Probe Inspection/Calibration	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Recalibrated - ok



**Water Sampling:**

Were water samples taken? ☐ Yes ☒ No

Raw water: pH 6.35 Turbidity 3.91 NTU

Bag Filter Influent pH 8.89 Turbidity 4.04 NTU

Bag Filter Effluent pH 9.03 Turbidity 3.01 NTU

Carbon Filter Influent pH n/a Turbidity n/a NTU

Carbon Filter Effluent pH n/a Turbidity n/a NTU

**Monthly Tasks:**

Were samples submitted to Analytical? ☐ Yes ☒ No

Analytical Lab: \_\_\_\_\_

Was Walchem data downloaded? ☐ Yes ☒ No

Were the tank sludge levels checked? ☐ Yes ☒ No

**Sludge Depth (inches):**

Decant Tank: \_\_\_\_\_

Treatment tank: \_\_\_\_\_

Backflush tank: \_\_\_\_\_

Main lift station: \_\_\_\_\_

North lift station: \_\_\_\_\_

South lift station: \_\_\_\_\_

**Additional Comments, Recommendations and System Upsets:**

8 unused filters remaining onsite.

Tank 1 level below sump pump, unable to run system excessively in recirculation mode before running out of water.

In-line pH probe appears to be drifting +0.5 pH when checked with handheld. Probe requires very little adjustments when calibrated in solution. Continued observation.

\_\_\_\_\_  
David DuBois  
Technician

\_\_\_\_\_  
Project Lead Technician  
Title

\_\_\_\_\_  
12/30/19  
Date

**Submit**